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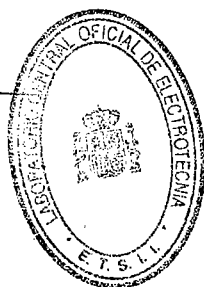
TEST REPORT

Requested by:	José María Rodríguez	Nº of test report:	200305350262/M Test Report modified due to a change in the commercial name (model) requested by the client
Address:	c/ Terral, 5 28223 Madrid	Nº of Pages:	8 + 2 appendix
Tested device:	Lightning rod equipped with triggering device	Beginning of test date:	05/09/02
Model:	Eritech Interceptor SI 60	End of test date:	05/09/02
Type / Reference nº:	Prototype s/n	Issue date:	22/05/03
Applied Standards:	UNE 21186		

Tests performed by:

Head of the HV Department.

Miguel Corriols



Fernando Garnacho Vecino

VALIDITY CONDITIONS FOR THIS DOCUMENT:

- Tests results refer only to the tested sample.
- The tested sample is described in this report, and corresponds to that originally received, together with the modifications that, during the tests, should have been made in order to accomplish the test requirements. These modifications, if any, are documented in LCOE files.
- Partial reproduction of this document is forbidden.
- Should this test report present any correction, it must be considered void.

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5. RESULTS

Appendix A to this test report shows the list of the results obtained for the time to breakdown for each impulse.

The mean times-to-breakdown, $\langle T'_{PDC} \rangle$ y $\langle T'_{PR} \rangle$, obtained respectively as the mean value of the times-to-breakdown of each series of impulses, have been referred to the corresponding reference wave shape, as specified in paragraph C.4.2. in the Standard, with the aim of obtaining the standards times-to-breakdown $\langle T_{PDC} \rangle$ y $\langle T_{PR} \rangle$, whose difference $\langle T_{PR} \rangle - \langle T_{PDC} \rangle$ is defined as the "gain in time to breakdown", t .

The results obtained in the test are shown in table 1.

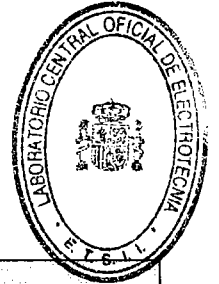


Table 1. Test results.

Mean time-to-breakdown for the reference arrester $\langle T'_{PR} \rangle$	Mean time-to-breakdown for the ESE arrester $\langle T'_{PDC} \rangle$	Difference between the mean times obtained experimentally $\langle T'_{PR} \rangle - \langle T'_{PDC} \rangle$	Gain in time to breakdown t $\langle T_{PR} \rangle - \langle T_{PDC} \rangle$	Uncertainty associated to results (*)
319,1 μ s	266,0 μ s	53,1 μ s	63 μ s	$\pm 12 \mu$ s

(*) Uncertainty calculated on the basis of the metrological viability study performed in this LCOE.

And, for whomever it may concern, and requested by Jose María Rodríguez, this test report is issued in Madrid, on May 22nd, 2003.

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